

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	66	(429/12-46.ccls. or 502/101.ccls.) and cataly\$4 with (volt\$4 or potential) with (activat\$6)	US-PGPUB; USPAT	ADJ	ON	2010/01/15 15:38
L3	20	(US-20070167313-\$ or US-20040028992-\$ or US-20040058808-\$ or US-20050221975-\$ or US-20060088741-\$ or US-20070078052-\$ or US-20070111084-\$ or US-20030144134-\$ or US-20040137310-\$ or US-20050058871-\$ or US-20030091889-\$).did. or (US-7005401-\$ or US-7208437-\$ or US-3617388-\$ or US-5151515-\$ or US-5171644-\$ or US-5643689-\$ or US-7060648-\$).did. or (JP-08022827-\$ or JP-09027327-\$).did.	US-PGPUB; USPAT; JPO	ADJ	ON	2010/01/15 15:45
L4	2	l3 and potential sweep\$5	US-PGPUB; USPAT	ADJ	ON	2010/01/15 15:45
L5	14	(429/12-46.ccls. or 502/101.ccls.) and cataly\$6 with potential sweep\$5	US-PGPUB; USPAT	ADJ	ON	2010/01/15 15:46
L6	0	(429/12-46.ccls. or 502/101.ccls.) and cataly\$6 with volt\$4 sweep\$5	US-PGPUB; USPAT	ADJ	ON	2010/01/15 15:47
L7	419	(429/12-46.ccls. or 502/101.ccls.) and (volt\$4 or potential) near2 (cycl\$4 or stepp\$4 or sweep\$4)	US-PGPUB; USPAT	ADJ	ON	2010/01/15 15:48
L8	55	(429/12-46.ccls. or 502/101.ccls.) and (volt\$4 or potential) near2 (cycl\$4 or stepp\$4 or sweep\$4) with cataly\$6	US-PGPUB; USPAT	ADJ	ON	2010/01/15 15:48
L9	5	l8 and l2	US-PGPUB; USPAT	ADJ	ON	2010/01/15 16:00
L10	22	(429/12-46.ccls. or 502/101.ccls.) and (volt\$4 or potential) near2 (scan\$5) with cataly\$6	US-PGPUB; USPAT	ADJ	ON	2010/01/15 16:02
L11	0	"502" and fuel cell (volt\$4 or potential) near2 (scan\$5 or sweep\$5 or step\$5 or cycl\$5) with cataly\$6 with (activat\$6 or impurit\$5 or purif\$6)	US-PGPUB; USPAT	ADJ	ON	2010/01/15 16:07

L12	0	"502".clas. and fuel cell (volt\$4 or potential) near2 (scan\$5 or sweep\$5 or step\$5 or cycl\$5) with cataly\$6 with (activat\$6 or impurit\$5 or purif\$6)	US-PGPUB; USPAT	ADJ	ON	2010/01/15 16:08
L13	6	"502".clas. and fuel cell and (volt\$4 or potential) near2 (scan\$5 or sweep\$5 or step\$5 or cycl\$5) with cataly\$6 with (activat\$6 or impurit\$5 or purif\$6)	US-PGPUB; USPAT	ADJ	ON	2010/01/15 16:08
S1	1	"10591016"	US-PGPUB; USPAT	ADJ	ON	2009/04/07 09:48
S2	1082	502/101.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/04/07 09:52
S3	128	S2 and (provid\$4 or suppl\$4 or pas\$5 or direc\$5) near5 (potential or voltage)	US-PGPUB; USPAT	ADJ	ON	2009/04/07 09:53
S4	25	S2 and (provid\$4 or suppl\$4 or pas\$5 or direc\$5) near5 (potential or voltage) with cathode	US-PGPUB; USPAT	ADJ	ON	2009/04/07 09:53
S5	250	S2 and (potential or voltage) with cathode	US-PGPUB; USPAT	ADJ	ON	2009/04/07 09:56
S6	225	S5 not S4	US-PGPUB; USPAT	ADJ	ON	2009/04/07 09:56
S7	253	S2 and (potential or voltage) with (cathode or (positive electrode))	US-PGPUB; USPAT	ADJ	ON	2009/04/07 09:56
S8	228	S7 not S4	US-PGPUB; USPAT	ADJ	ON	2009/04/07 09:56
S9	44	"129023"	JPO; DERWENT	ADJ	ON	2009/04/07 10:15
S10	7	"822827"	JPO; DERWENT	ADJ	ON	2009/04/07 10:16
S11	3	1996-022827	JPO; DERWENT	ADJ	ON	2009/04/07 10:16
S12	5	"22827"	JPO; DERWENT	ADJ	ON	2009/04/07 10:16
S13	0	JP8-22827	JPO; DERWENT	ADJ	ON	2009/04/07 10:20
S14	0	JP8-22827	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/07 10:20
S15	0	JP822827	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/07 10:21

S16	0	JP8022827	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/07 10:21
S17	79	"022827"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/07 10:21
S18	65	"022827"	FPRS; JPO; DERWENT	ADJ	ON	2009/04/07 10:21
S19	0	"022827"	JPO	ADJ	ON	2009/04/07 10:21
S20	65	"022827"	JPO; DERWENT	ADJ	ON	2009/04/07 10:21
S21	1	"0022827"	JPO; DERWENT	ADJ	ON	2009/04/07 10:25
S22	5	"22827"	JPO; DERWENT	ADJ	ON	2009/04/07 10:25
S23	3	1996-022827	JPO; DERWENT	ADJ	ON	2009/04/07 10:30
S24	3	1996-155571	JPO; DERWENT	ADJ	ON	2009/04/07 10:30
S25	2	"08022827"	JPO; DERWENT	ADJ	ON	2009/04/07 10:31
S26	2	"09027327"	JPO; DERWENT	ADJ	ON	2009/04/07 10:36
S27	594	"502".clas. and (phthalocyanines or tetraphenylporphyrin)	US-PGPUB; USPAT	ADJ	ON	2009/04/07 10:46
S28	39	"502".clas. and (phthalocyanines or tetraphenylporphyrin) and cathode with cataly\$4	US-PGPUB; USPAT	ADJ	ON	2009/04/07 10:46
S29	32	"502".clas. and (phthalocyanines or tetraphenylporphyrin) and (cathode with cataly\$4) same fuel cell	US-PGPUB; USPAT	ADJ	ON	2009/04/07 10:48
S30	11	(US-20070167313-\$ or US- 20040028992-\$ or US- 20040058808-\$ or US- 20050221975-\$ or US- 20060088741-\$ or US- 20070078052-\$ or US- 20070111084-\$).did. or (US- 7005401-\$ or US-7208437-\$). did. or (JP-08022827-\$ or JP- 09027327-\$).did.	US-PGPUB; USPAT; JPO	ADJ	ON	2009/04/07 10:57
S31	7	S30 and (voltage or potential)	US-PGPUB; USPAT	ADJ	ON	2009/04/07 10:58

S32	55	429/12-46.ccls. and (phthalocyanines or tetraphenylporphyrin) and (cathode with cataly\$4) same fuel cell	US-PGPUB; USPAT	ADJ	ON	2009/04/07 11:01
S33	11	429/12-46.ccls. and (phthalocyanines or tetraphenylporphyrin) and (cathode with cataly\$4) same fuel cell same methanol	US-PGPUB; USPAT	ADJ	ON	2009/04/07 11:11
S34	15	(US-20070167313-\$ or US-20040028992-\$ or US-20040058808-\$ or US-20050221975-\$ or US-20060088741-\$ or US-20070078052-\$ or US-20070111084-\$).did. or (US-7005401-\$ or US-7208437-\$ or US-3617388-\$ or US-5151515-\$ or US-5171644-\$ or US-5643689-\$).did. or (JP-08022827-\$ or JP-09027327-\$). did.	US-PGPUB; USPAT; JPO	ADJ	ON	2009/04/07 11:38
S35	4	S34 and (voltage or potential) not S31	US-PGPUB; USPAT	ADJ	ON	2009/04/07 11:38
S36	1	"10591016"	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:24
S37	1110	502/101.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:24
S38	520	S37 and cathode with catalyst	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:44
S39	511	S37 and (cathode or positive electrode) with catalyst and fuel cell	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:45
S40	602	S39 and porppyrin or pthalocyanine	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:46
S41	0	S39 and (porppyrin or pthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:46
S42	35	S39 and (porphyrin or pthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:46
S43	4	S39 and (porphyrin or pthalocyanine) and (reference with standard)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:47
S44	5	S39 and (porphyrin or pthalocyanine) and (reference with standard or SHE)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:47
S45	4078	429/40-44.ccls.	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:52
S46	1849	S45 and (cathode or positive electrode) with catalyst	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:52
S47	13	S46 and (porphyrin or pthalocyanine) and (reference with standard or SHE)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:53

S48	14	S46 and (porphyrin or phthalocyanine) and (reference with standard or SHE)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:55
S49	5	S39 and (porphyrin or phthalocyanine) and (reference with standard or SHE)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:55
S50	19	S46 and (porphyrin or phthalocyanine) and (reference with standard or SHE or SCE)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 09:57
S51	13	S46 and (porphyrin or phthalocyanine) and (standard hydrogen electrode or calomel electrode or SHE or SCE)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:00
S52	17	S46 and (porphyrin or phthalocyanine) and (standard hydrogen electrode or calomel electrode or SHE or SCE or normal hydrogen electrode or nhe)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:01
S53	9	S39 and (porphyrin or phthalocyanine) and (standard hydrogen electrode or calomel electrode or SHE or SCE or normal hydrogen electrode or nhe)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:03
S54	42	S39 and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:04
S55	33	S54 not S53	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:04
S56	9	S54 and ((appl\$4 or provid\$4) near3 (voltage or potential))	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:39
S57	4	S54 and (porphyrin or phthalocyanine) same catalyst and ((appl\$4 or provid\$4) near3 (voltage or potential))	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:42
S58	27	429/12-46.ccls. and (porphyrin or phthalocyanine) same catalyst and ((appl\$4 or provid\$4) near3 (voltage or potential))	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:43
S59	1195745	429/12-46.ccls. and (porphyrin or phthalocyanine) and ((appl\$4 or provid\$4) near3 (voltage or potential)) with voltage or potential	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:47
S60	45	429/12-46.ccls. and (porphyrin or phthalocyanine) and ((appl\$4 or provid\$4) near3 (voltage or potential)) with (voltage or potential)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:47
S61	3	429/12-46.ccls. and (porphyrin or phthalocyanine) and ((appl\$4 or provid\$4) near3 (voltage or potential)) with (catalyst)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:48

S62	45	429/12-46.ccls. and (porphyrin or phthalocyanine) and ((appl \$4 or provid\$4) near3 (voltage or potential))	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:49
S63	18	502/101.ccls. and catalyst with activat\$4 with (potential or voltage)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:58
S64	3	502/101.ccls. and catalyst with activat\$4 with (potential or voltage) and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 10:58
S65	4	429/12-46.ccls. and catalyst with activat\$4 with (potential or voltage) and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:00
S66	0	429/12-46.ccls. and catalyst with oxidiz\$4 with (potential or voltage) with precursor and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:03
S67	0	429/12-46.ccls. and catalyst with oxid\$6 with (potential or voltage) with precursor and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:04
S68	18	429/12-46.ccls. and catalyst with oxid\$6 with (potential or voltage) and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:04
S69	4	429/12-46.ccls. and catalyst with activat\$5 with (potential or voltage) and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:07
S70	5	(429/12-46.ccls. or 502/101.ccls.) and catalyst with activat \$5 with (potential or voltage) and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:08
S71	5	(429/12-46.ccls. or 502/101.ccls.) and catalyst with activat \$5 with (potential or voltage or volt) and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:09
S72	45	(429/12-46.ccls. or 502/101.ccls.) and catalyst with activat \$5 and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:09
S73	45	(429/12-46.ccls. or 502/101.ccls.) and catalyst with activat \$5 and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:10
S74	2	(429/12-46.ccls. or 502/101.ccls.) and catalyst same precursor with activat\$5 and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:13

S75	6	(429/12-46.ccls. or 502/101.ccls.) and precursor with activat \$5 and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:14
S76	2	(429/12-46.ccls. or 502/101.ccls.) and precursor with activat \$5 and (porphyrin or phthalocyanine) not activated carbon	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:14
S77	56	(429/12-46.ccls. or 502/101.ccls.) and cataly\$5 with activat \$5 and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:15
S78	11	S77 not S73	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:16
S79	62	(429/12-46.ccls. or 502/101.ccls.) and cataly\$5 with activat \$5 with (potential or voltage)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:18
S80	57	S79 not S77	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:18
S81	0	"0822827"	JPO; DERWENT	ADJ	ON	2009/07/17 11:29
S82	2	"08022827"	JPO; DERWENT	ADJ	ON	2009/07/17 11:29
S83	2	"09027327"	JPO; DERWENT	ADJ	ON	2009/07/17 11:29
S84	3	(502/101.ccls.) and precursor with (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:48
S85	51	(502/101.ccls.) and (porphyrin or phthalocyanine)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:49
S86	1	(502/101.ccls.) and (porphyrin or phthalocyanine) and catalyst with ("1.3 V" or "1.4 V" or "1.5 V" or "1.6 V")	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:50
S87	0	(502/101.ccls.) and (porphyrin or phthalocyanine) and catalyst with ("1.3V" or "1.4V" or "1.5V" or "1.6V")	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:50
S88	1	(502/101.ccls.) and (porphyrin or phthalocyanine) and catalyst with ("1.3 V" or "1.4 V" or "1.5 V" or "1.6 V")	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:51
S89	1	(502/101.ccls.) and (porphyrin or phthalocyanine) and activat \$5 with ("1.3 V" or "1.4 V" or "1.5 V" or "1.6 V")	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:51
S90	0	(502/101.ccls.) and (porphyrin or phthalocyanine) with ("1.3 V" or "1.4 V" or "1.5 V" or "1.6 V")	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:51

S91	0	(502/101.ccls.) and (porphyrin or phthalocyanine) with activat\$5	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:51
S92	14	429/12-46.ccls. and (porphyrin or phthalocyanine) with (precursor or activat\$5)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:52
S93	13	(429/12-46.ccls. or 502/101.ccls.) and (porphyrin or phthalocyanine) with cataly\$4 and (volt\$4 or potential) near2 (cycl\$4 or stepp\$4 or sweep\$4)	US-PGPUB; USPAT	ADJ	ON	2009/07/17 11:57

**EAST Search History (Interference)**

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